What is claimed is:

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- 1. A circuit design support method for instructing a computer to execute a program describing an iterative calculation equation of the Newton method including the Jacobi matrix to thereby calculate a circuit element value of an analog electronic circuit to be designed, wherein the program describing the calculation equation in which an approximate equation is substituted for a partial differentiation that is an element of the Jacobi matrix is used, and the element as an object of the partial differentiation of the Jacobi matrix is obtained from a waveform observed in response to a circuit configuration of the analog electronic circuit.
- 2. The circuit design support method according to claim 1, wherein a steady state of the analog electronic circuit is obtained simultaneously with the calculation of the circuit element value.
- 3. The circuit design support method according to claim 1 or claim 2, wherein statistical data are provided as a constraint condition of the analog electronic circuit.
- 4. A circuit design support implement for executing a program describing an iterative calculation equation of the Newton method including the Jacobi matrix to thereby calculate a circuit element value of an analog electronic circuit to be designed, wherein the program describing the calculation equation in which an approximate equation is substituted for a partial differentiation that is an element of the Jacobi matrix is used, and the element as an object of the partial differentiation of the Jacobi matrix is obtained from a waveform observed in response to a circuit configuration of the analog electronic circuit.
- 5. The circuit design support implement according to claim 4, wherein a steady state of the analog electronic circuit is obtained simultaneously with the calculation of the circuit element value.

- 6. The circuit design support implement according to claim 4 or claim 5, wherein statistical data are provided as a constraint condition of the analog electronic circuit.
- 7. A circuit design support program for instructing a computer to calculate an iterative calculation equation of the Newton method including the Jacobi matrix to thereby calculate a circuit element value of an analog electronic circuit to be designed, wherein the calculation equation in which an approximate equation is substituted for a partial differentiation that is an element of the Jacobi matrix is used, and the element as an object of the partial differentiation of the Jacobi matrix is obtained from a waveform observed in response to a circuit configuration of the analog electronic circuit.

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- 8. The circuit design support program according to claim 7, wherein a steady state of the analog electronic circuit is obtained simultaneously with the calculation of the circuit element value.
- 9. The circuit design support program according to claim 7 or claim 8, wherein statistical data are provided as a constraint condition of the analog electronic circuit.